

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
August 2001**

Prepared by the
Office of the Delaware River Master
Milford, Pennsylvania

Adjusted streamflow in the upper Delaware River Basin during August was deficient. The maximum daily discharge of 2,400 cfs occurred on August 10. The minimum daily discharge was 1,560 cfs on August 27.

On the basis of a multi-station average, precipitation during August was 2.58 inches, which was 67 percent of the 60-year average. The maximum daily-average precipitation during August was 0.38 inches on August 4. Precipitation in the upper Delaware River Basin during the past 12 months was 8.13 inches less than the long-term average. Precipitation during August was 1.27 inches less than the long-term average for the month.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during August was 1,788 cfs, which was 85 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 620 cfs, or 45 percent of median (water years 1961-90).

Combined storage September 1, 2001 in Pepacton, Cannonsville, and Neversink Reservoirs was 66 percent of capacity above the point of maximum depletion. The combined storage of 178 billion gallons was 43 billion gallons less than that of one month ago and 77 billion gallons less than that of one year ago. Median storage on the first day of September in 34 years of record is 203 billion gallons.

As part of a statewide network, the USGS operates 13 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during August were below average in 9 of the wells. Water levels in 11 of the wells were trending downward in comparison to July levels. Water levels in 8 of the wells were below August 2000 levels.

HYDROLOGIC CONDITIONS IN THE UPPER DELAWARE RIVER BASIN

Compiled by the Office of the Delaware River Master, Milford, Pa.

(Preliminary data - subject to revision)

PRECIPITATION, IN INCHES

	Dec. 1940 to August 2000		September 2000 to August 2001					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Sept.	3.83	43.29	3.74	35.16	98	81	-.09	-8.13
Oct.	3.39	39.46	2.78	31.42	82	80	-.61	-8.04
Nov.	3.85	36.07	2.45	28.64	64	79	-1.40	-7.43
Dec.	3.34	32.22	4.30	26.19	129	81	+.96	-6.03
Jan.	3.02	28.88	*1.46	21.89	48	76	-1.56	-6.99
Feb.	2.65	25.86	2.26	20.43	85	79	-.39	-5.43
Mar.	3.33	23.21	4.95	18.17	149	78	+1.62	-5.04
Apr.	3.77	19.88	1.38	13.22	37	66	-2.39	-6.66
May	4.21	16.11	3.09	11.84	73	73	-1.12	-4.27
June	3.96	11.90	3.81	8.75	96	74	-.15	-3.15
July	4.09	7.94	2.36	4.94	58	62	-1.73	-3.00
Aug.	3.85	3.85	2.58	2.58	67	67	-1.27	-1.27

Note: Amount shown in cumulative columns is total from month shown to present.

*Revised since last month

STREAMFLOW, IN CFS DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-99			2001 Monthly mean	Percent of median
	Maximum	Median	Minimum		
August (observed)	14,230 (1955)	2,096	715 (1954)	1,788	85
August (adjusted)	17,410 (1955)	1,380	364 (1964)	620	45
September (observed)	9,167 (1960)	2,016	892 (1941)		
September (adjusted)	10,720 (1960)	1,462	324 (1964)		